

## ABSTRACT

A method and system is provided for monitoring the quality of signal transmissions in a communications network by calculating Quality of Services (QoS) scores and corresponding Transmission Impairment Test (TIT) scores, and then monitoring a QoS score to predict a corresponding TIT score. When the predicted TIT score goes below a minimum value, an administrator of the communications network will be informed so that the administrator can determine if services may be needed to restore the quality of signal transmissions. In an embodiment, the communications network includes a cable modem termination system (CMTS); a voice band tester (VBT) coupled to the CMTS; a cable modem tester coupled to the CMTS; and a Voice over Internet Packet (VoIP) monitoring device coupled to the CMTS and the voice band tester. The cable modem tester is located at a location remote from the VBT.